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ENQUIRY

INTO THE

Effects of Spirituous Liquors

UPON THE

HUMAN BODY,

And their INFLUENCE upon the

HAPPINESS OF SOCIETY.

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ENQUIRY, &c.

Y Spirits I mean all those liquors which are obtained by distillation from fermented juices or substances of any kind. These liquors were formerly used only in medicine.

— They now constitute a principal part of the drinks of many countries.

Since the introduction of spirituous liquors into such general use, physicians have remarked that a number of new diseases have appeared among us, and have described many new symptoms as common to old diseases. Spirits in their sinft operation are stimulating upon the system. They quicken the circulation of the blood, and produce some heat in the body. Soon afterwards, they become what is called fedative; that is, they diminish the action of the vital powers, and thereby produce langor and weakness.

The effects of spirituous liquors upon the human body, are sometimes flow in their appearance. A strong constitution, especially if it be affisted with constant and hard labour, will counteract the destructive effects of spirits for many years, but in general they produce the following dis-

eafes:

1. A fickness at the flomach, and vomiting in the morning. This disorder is generally accompanied with a want of appetite for breakfast. It is known by tremors in the hands, insomuch that persons who labour under it, are hardly able to lift a tea cup to their heads, 'till they have taken a dose of some cordial liquor. In this disorder, a peculiar paleness, with small red streaks, appear in the cheeks. The field of the face, at the same time, has a peculiar sul-

ness and flabbiness, which are very different from found and healthy fat.

2. An universal dreps. This disorder begins first in the lower limbs, and gradually extends itself throughout the whole body. I have been told that the merchants in Charleston, in South-Carolina, never trust the planters when spirits have produced the first symptom of this disorder upon them. It is very natural to suppose that industry and virtue have become extinct in that man, whose legs and feet are swelled, from the use of spirituous siquors.

3. Obstruction of the liver. This disorder produces other diseases, such as an inflammation, which sometimes proves suddenly fatal—the jaundice—and a dropsy in the belly.

4. Pains in the limbs, accompanied with a fense of burning in the palms of the hands and soles of the feet. This disease has been sometimes called the Jamaica Rheumatism.

5. The epileps, 6. madness, 7. the palsy, and 8. the apoplexy, complete the group of diseases produced by spirituous liquors. I do not affert that these disorders are never produced by any other causes, but I maintain that spirituous liquors are the most frequent causes of them, and that when a predisposition to them is produced by other causes, they are rendered more certain and more dangerous by the intemperate use of spirits.

I have only named a few of the principal diforders which are produced by fpirituous liquors. It would take up a volume to describe how much other disorders natural to the human body, are increased and complicated by them. Every species of inflammatory and putrid sever, is rendered more frequent and more obstinate by the use of spirituous liquors.

The danger to life from the difeases which have been mentioned is well known. I do not think it extravagant therefore to repeat here, what has been often said, that spirituous liquors destroy more lives than the sword. War has its intervals of destruction—but spirits operate at all times and seasons upon human life. The ravages of war are confined to but one part of the human species, viz. to men, but spirits act too often upon persons who are exempted from the dangers of war by age or sex; and lastly, war destroys only those persons who allow the use of arms to be lawful, whereas spirits infinuate their satal effects among people, whose principles are opposed to the estation of human blood.

If we advance a step surther and examine the effects of spirituous liquors upon the mind, the prospect will be still more distressing and terrible. Their first effects here, shew themselves in the temper. I have constantly observed men who are intoxicated in any degree with spirits, to be prevish and quarressome; after a while they lose by degrees the moral sense. They violate promises and engagements without shame or remorfe. From these deficiencies in veracity and integrity, they pass on to crimes of a more heinous nature. It would dishonour human nature only to name them.

The next operation of ardent spirits is upon the underflanding. This sublime power of the mind is first debilitated in hard drinkers.—They discover a torpor in every mental exertion, even when they are not under the immediate influence of spirits. To this debility in the understanding succeed the loss of mamory, and the perversion of all the intellectual powers in melancholy and madnels, and in some

cases the total extinction of them in idictism .-

Let us next turn our eyes from the effects of spirits upon the body and mind, to their, effects upon property; and here fresh scenes of misery open to our view. Among the inhabitants of cities, they produce debts, disgrace, and bankruptcy. Among farmers, they produce idleness with its usual consequences, such as houses without windows—barns without roofs—gardens without inclosures—fields without fences—hogs without yokes—sheep without wool—meagre cattle—feeble horses—and half clad dirty children, without principles, morals, or manners.—This picture is not exaggerated. I appeal to the observations of my countrymen, whether such scenes of wretchedness do not follow the tracks of spirituous liquors, in every part of the United States.

Thus have I in a few words pointed out the effects of spirituous liquors upon the bodies, minds, and estates of my fellow-citizens.—Their mischiefs may be summed up in a few words. They fill our church-yards with premature graves—they deface the image of God in the soul—they derange or destroy the intellectual powers—they fill the sheriff's docket with executions—they croud our hospitals with patients, and our jails with criminals—they lead to places of public ignominy and punishment—and lattly, they people the regions—but it belongs to another profession to shew their terrible consequences in the suture world.

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I shall now proceed to combat some prejudices in favour of the use of spirituous liquors.

There are are three occasions in which spirits have been thought necessary and useful.

1: In very cold weather.

- 2. In very warm weather. And:
- 3. In times of hard labour.
- fpirituous liquors lessen the effects of cold upon the body. On the contrary, I maintain that they always render the body more liable to be affected and injured by cold. The temporary warmth they produce, is always succeeded by chillines. If any thing, besides warm cloathing and exercise, is necessary to warm the body in cold weather, a plentish meal of wholesome food is at all times sufficient for that purpose. This, by stimulating the stomach, invigorates the whole system, and thus renders it less sensible of the cold.
- 2. It is equally abfurd to suppose that spirituous liquors lessen the effects of heat upon the body. So far from it, they rather encrease them. They add an internal heat to the external heat of the sun; they dispose to severs and inflammations of the most dangerous kind; they produce preternatural sweats which weaken, instead of an uniform and gentle perspiration, which exhibitates the body. Half the diseases which are said to be produced by warm weather, I am persuaded are produced by the spirits which are swal-

lowed to lessen its effects upon the system.

3. I maintain with equal confidence, that spirituous liquors do not lessen the effects of hard labour upon the body. Look at the borse, with every muscle of the body swelled from morning till night in the plough, or the team, does he make signs for spirits to enable him to cleave the earth, or to climb a hill?—No. He requires nothing but cool water and substantial food. There is neither strength nor nourishment in spirituous siquors. If they produce vigour in labour, it is of a transient nature, and is always succeeded by a sense of weakness and satigue. These facts are founded in observation; for I have repeatedly seen those men perform the greatest exploits in work both as to their degrees and duration, who never tasted spirituous siquors.

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But are there no conditions of the human body in which spirituous liquors are required?—Yes, there are; 1st. In those cases where the body has been exhausted by any causes, and faintness, or a stoppage in the circulation of the blood has been produced, the sudden stimulus of spirits may be necessary. In this case we comply strictly with the advice of Solomon, who confines the use of "strong drink" only to him "that is ready to perish!" And 2diy. When the body has been long exposed to wet weather, and more especially if cold be joined with it, a moderate quantity of spirits is not only proper but highly useful to obviate debility, and thus to prevent a sever. I take these to be the only two cases that can occur, in which spirituous siquors are innocent or necessary.

But if we reject spirits from being part of our drinks, what liquors shall we substitute in the room of them? For custom, the experience of all ages and countries, and even nature herself, all seem to demand drinks more grateful and

more cordial than fimple water.

To this I shall reply, by recommending in the room of

spirits, in the first place,

1. CYDER. This excellent liquor contains a small quantity of spirit, but so diluted and blunted, by being combined with an acid and a large quantity of facharine matter and water, as to be perfectly inoffensive and wholesome. It difagrees only with persons subject to the rheumatism, but it may be rendered inoffensive to such people by extinguish. ing a red hot iron in it, or by diluting it with water. It is to be lamented that the late frosts in the spring often deprive us of the fruit which affords this liquor. But the effects of these frosts have been in some measure obviated, by giving an orchard a north-west exposire, so as to check too early vegetation, and by kindling two or three large fires of brush and straw to the windward of the orchard, the evening before we expect a night of frost. This last expedient, has in many instances within the compass of my knowledge, preferved the fruit of an orchard, to the great joy and emolument of the ingenious hufbandman.

2. BEER is a wholesome liquor compared with spirits. The grain from which it is obtained is not liable, like the apple, to be affected by frost, and therefore it can always he procured at a moderate expense. It abounds with nourishment—hence we find many of the common people in

Great Britain, endure hard labour with no other food than a quart or three pints of this liquor, with a few pounds of bread a-day. I have heard with great pleafure of breweries being fet up in feveral of the principal county towns of Penn-fylvania, and I efteem it a fign of the progress of our state in wealth and happiness, that a fingle brewer in Chester county sold above a 1000 barrels of beer in one year. While I wish to see a law imposing the heaviest taxes on whisky distilleries, I should be glad to see breweries (at least for

fome years) wholly exempted from taxation.

3. WINE is lkewife a wholefome liquor, compared with fpirits. The low wines of France, I believe, could be drank at a lefs expence than fpirits, in this country. The peafants in France, who drink thefe liquors in large quantities, are a healthy and fober body of people. Wines of all kinds yield, by chemical analytis, the fame principles as cyder, but in different proportions; hence they are both cordial and nourathing. It has been remarked, that few men ever become habitual drunkards upon wine. It derives its relift principally from company, and is feldom, like fpirituous liquors, drack in a chimney corner, or in a closet. The effects of wine upon the temper are likewife, in most cases, directly opposite to those that were mentioned of spirituous liquors. It must be a bad heart, indeed, that is not rendered more chearful and more generous, by a few glasses of wine.

4. MELASSES and WATER compose another excellent substitute for spirits. It is both cordial and nourishing.

5. The SUGAR MAPLE tree affords a thin JUICE in furnmer, which is cooling and refreshing. It has long been used in Connecticut, for this purpose, in the time of harvest. The settlers in the western counties of Pennsylvania and New-York, will do well to suffer a few of the trees which

^{*} If two barrels of cyder fresh from the press, are boiled into one, and afterwards fermented, and kept for two or three years in a dry cellar, it assords a liquor which (according to the quality of the apple from which the cyder is made,) has the taste of Malaga or Rhenish wine. This liquor, when mixed with water, assords a very agreeable drink in summer. I have taken the liberty of calling it Pamena wine. Another method of obtaining a pleasant wine from the apple, is to add to four and twenty gallons of new cyder, three gallons of a syrup made from the expected juice of sweet apples. When thoroughly fermented, and kept for some time, it becomes sit for use.

yield this pleasant juice, to remain in all their fields. They may prove the means, not only of faving their children and grand-children many hundred pounds, but of faving their bodies from diease and death, and their fouls from intery be-

youd the grave.

6. VINEGAR and WATER sweetened with sugar or melaffes, is an agreeble daink in warm weather. I beg. leave to recommend this wholefone mixture to reapers in a particular manner. It is pleafant and cooling. It promotes perspiration, and relifts putrefaction. Vinegar and water constituted the only drink of the soldiers of the Roman retublic; and it is well known that they marched and fought in a warm climate, and beneath a load of arms that weighed bolbs. Boaz, a wealthy farmer in Palestine, we find treated his reapers with nothing but bread dipped in vinegar. Under this head, I should not neglect to recommend BUTTER MILK and WATER, or SOUR MILK (commonly called bonneclabber) and WATER. It will be rendered more grateful by the addition of a little fugar. Punch is likewife calculated to lessen the effects of heat, and hard labour upon the body. The spirit in this liquor is blunted by its union with the vegetable acid. Hence it possesses, not only the constituent parts, but most of the qualities of cycler and wine. To render this liquor perfectly innocent and wholesome, it must be drank weak-in moderate quantitiesand only in warm weather. Say not, that spirits have become necessary in harvest, from habit and the custom of the country. The custom of swallowing this liquid fire, is a bad one, and the habit of it may be broken. Let half a dozen farmas in a neighbourhood, combine to allow higher wages to their reapers than are common, and a sufficient quantity of any of the liquors I have recommended, and they may foon abolish the practice of giving them spirits. They will in a little while be delighted with the good effects of their affociation. Their grain will be focuer and more carefully gathered into their bains, and an hundred difagree.ble teenes of fickness and contention will be avoided, which always follow in a greater or less degree the use of spirituous liquors.

To enable the body to support the waste of its strength by labour, the stomach should be constantly, but moderately, stimulated by aliment of a particular kind. Labourers bear with great difficulty long intervals between their meds.

They should always eat four or five times a-day in time of harvest, or at other featons of great boddy exertion .- The food at there times should be folid, confisting chiefly of falted meat .- The vegetables used with it should possess some activity. Omons and garlic are of a most cordial nature. Theie vegetables compoled part of the diet which enabled the Hraelites to endure, in a warm climate, the heavy talks imposed upon them by their Egyptian masters. They were likewife eaten by the Roman tarmers to repair the waste of their strength by the toils of harvest - But further; There are certain SWEET SUBSTANCES which support the body in labour. The negroes in the West Indies grow fat and strong by drinking the juice of the logar cane in the feafon of grinding it. The Jewish toldiers were invigorated by occasionally eating railins and figs. A bread composed of wheat flour, melaffex, and ginger, (compoling what is called ginger bread,) and taken in small quantities, during the day, is happily calculated to obviate the debility which is to apt to be brought on by labour. All these substances, whether of an animal or vegetable nature, which have been mentioned, should be used by labouring people They lessen the necessity for cordial drinks,-and they impart equal and durable strength to every part of the fystem.

There are certain classes of people to whom I beg leave to suggest a caution or two upon the use of spirituous liquors.

1. Valetudinarians, especially those who labour under disorders of the stomach and bowels, are very apt to fly to spirits for relief. Let such people be cautious how they repeat this dangerous remedy. I have known many men and women, of excellent characters and principles, who have been betrayed, by occasional doses of gin or brandy to ease the choic, into a love of spirituous liquors, informuch that they have afterwards fallen facrifices to their statal effects. The different preparations of opium are a thousand times more tate and innocent than spirituous liquors, in all spasmod c affections of the stomach and bowels. So apprehensive am I of the danger of contracting a love for spirituous liquors, by accustoming the stomach to their stimulus, that I think the fewer medicines we exhibit in spirituous vehicles the better.

2. Some people, from living in countries tubject to the intermitting lever, endeavour to fortity themselves against it by two or three glasses of bitters made with spirits every day.—There is great danger of men becoming tots from

this practice. Besides, this mode of preventing intermittents is by no means a certain one. A much better fecurity against them is to be found in the Jesuits bark. A tea-soonfull of this excellent medicine taken every morning during the fickly feafon, has in many instances preferved whole families, in the neighbourhood of rivers and mill-ponds, from fevers of all kinds. If Jefuits bark cannot be had, a gill or half a pint of a strong intulion of centaury, camomile, wormwood or rue, in water, with a little calamus mixed with it, may be taken with nearly the same advantage as the bark, every morning. Those who live in a sickly part of the country and cannot procure the bark, or any of the bitters which have been mentioned, I would advise to avoid the morning and evening air in the fickly months-to kindle fires in their houses on damp days, and in cool evenings throughout the whole fummer, and to put on woolen cloathing about the first week in September. The last part of these directions applies only to the inhabitants of the middle states. These cautions I am perivaded, will be more effectual in preventing autumnal fevers than the best preparations that can be made from bitters in spirits.

3. Men who follow professions that require a constant exercile of the mind or body, or perhaps both, are very apt to feek relief from fatigue in spirituous liquors. To such perions I would beg leave to recommend the use of TEA instead of spirits. This gentle stimulus, by restoring excitement, removes fatigue, and invigorates the whole fystem. I am no advocate for the general or excessive use of tea. -When drank too ftrong, it is hurtful, especially to the female constitution; but when drank of a moderate degree of thrength, and in moderate quantities, with fugar and cream, or milk, I believe it is in general innocent, and at all times to be preferred to spirituous liquors. Anthony Benezet, one of the most industrious school-masters I ever knew, told me that he had been preserved from the love of spiritums liquors by contracting a love for tea in early life. Three or four dishes drank in an afternoon, carried off the faiigue of a whole day's labour in his school. This worthy gentleman lived to be 71 years of age, and afterwards died of an acute difeate in the full exercise of all the faculties of his mind.

To every class of my readers, I beg leave to suggest a caution against the use of TODDY. I acknowledge that I have

known some men, who, by limiting its strength constantly, by measuring the spirit and water, and who by drinking it only with their meals, have drank toddy for many years without fuffering in any degree from it; but I have known many more who have been infentibly led from drinking toddy for their constant drink, to take drams in the morning, and have afterwards paid their lives as the price of their folly. I shall select one case from among many that have come within the compass of my knowledge, to shew the ordinary progress of intemperance in the use of spirituous liquors .- A gentleman, once of a fair and lober character, in the city of Philadelphia, for many years drank toddy as his constant drink. From this be proceeded to drink grog. After a while nothing would fatisfy him but flings made of equal parts of rum and water, with a little fugar. From flings he advanced to raw rum-and from common rum to Jamaica. spirits. Here he rested for a few months; but at last he found even Jamaica spirits were not strong enough to warm his stomach, and he made it a constant practice to throw a table-spoonful of ground pepper into each glass of his spirits. in order (to use his own expression) "to take off their coldness."- It is hardly necessary to add, that he foon afterwards died a martyr to his own intemperance.

I shall conclude what has been said of the effects of spirituous liquors with two observations.—I. A people corrupted with strong drink cannot long be a free people. The rulers of such a community will soon partake of the vices of that mass from which they were secreted, and all our laws and governments will sooner or later bear the same marks of the effects of spirituous liquors which were described formerly upon individuals. I submit it therefore to the consideration of our rulers, whether more laws should not be made to encrease the expence and lessen the consumption of spirituous liquors, and whether some mark of public infamy should not be inflicted by law upon every man, convicted before a com-

mon magistrate of drunkenness.

The second and last observation I shall offer, is of a serious nature. It has been remarked that the Indians have diminished every where in America since their connections with the Europeans. This has been justly ascribed to the Europeans having introduced spirituous siquors among them. Let those men who are every day turning their backs upon all the benefits of cultivated society, to seek habitations in

the neighbourhood of Indians, consider how far this wandering mode of life is produced by the same cause which has scattered and annihilated so many Indians tribes.—Long life and the secure possession of property, in the land of their ancestors, was looked upon as a bleffing among the ancient Jews.—For a son to mingle his dust with the dust of his sather, was to act worthy of his inheritance; and the prospect of this honour often afforded a consolation even in death. However exalted my countrymen, your ideas of liberty may be, while you expose yourselves by the use of spirituous liquors to this consequence of them, you are nothing more than the pioneers, or in more slavish terms, the "hewers of

wood" of your more industrious neighbours.

If the facts that have been stated, have produced in any of my readers who have suffered from the use of spirituous liquors, a resolution to abstain from them hereaster, I must beg leave to inform them that they must leave them off suddenly and entirely. No man was ever gradually reformed from drinking spirits. He must not only avoid tasting, but even smelling them, until long habits of abstance have subdued his affection for them. To prevent his feeling any inconveniences from the sinden loss of their stimulus upon his stomach, he should drink plentifully of camomile or of any other bitter tea, or a few glasses of sound old wine every day. I have great pleasure in adding, that I have seen a a number of people who have been effectually restored to health—to character—and to usefulness to their families and to society, by following this advice



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